	Application No.	Applicant(s)	
	10/686,022	HYDUKE ET AL.	(AU)
Notice of Allowability	Examiner	Art Unit	(4)
	. Laink Mania Onekawaki	2025	
	Leigh Marie Garbowski	2825	
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF THE OFFICE	OR REMAINS) CLOSED in thi or other appropriate communic GHTS. This application is subj	s application. If not include ation will be mailed in due	ed course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>claims filed 10/14/200</u>	<u>03</u> .		
2. The allowed claim(s) is/are <u>1-9</u> .			
3. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the:		<b>;).</b>	
Certified copies of the priority documents have			
2. Certified copies of the priority documents have			
3. Copies of the certified copies of the priority doc	cuments have been received in	this national stage applica	tion from the
International Bureau (PCT Rule 17.2(a)).		•	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the red	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review ( F	PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in t	the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in th	84(c)) should be written on the d ne header according to 37 CFR 1.	rawings in the front (not the .121(d).	back) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F			Note the
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Inform	nal Patent Application (PT0	D-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Sumr		
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	Paper No./Mai 8), 7. ⊠ Examiner's Am	endment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Sta	tement of Reasons for Allo	wance
	9. 🔲 Other		

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# **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

# **CLAIM 1**

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";" [line 3] was changed to --:--; and
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"," [line 10] was changed to --:--.

#### CLAIM 2

";" [line 2] was changed to --:--.

#### CLAIM 3

"output" [line 6] was changed to --outputs--.

# **CLAIM 4**

"find" [line 2] was changed to --subroutine for finding--.

#### CLAIM 6

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";" [line 2] was changed to --:--;
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--said-- was inserted after "from" [line 24];

"find" [line 27, first occurrence] was changed to --finding--;

"find" [line 27, second occurrence] was changed to --said finding--;

"circuit" [line 28] was changed to --circuits--; and

"may be" [line 31] was changed to --is--.

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#### CLAIM 7

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"," [line 2] was deleted;

"," [lines 3 and 7] was changed to --:--;

--said-- was inserted before "selected" [line 11]; and

";" [line 14] was changed to --:--
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# CLAIM 8

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"," [line 2] was deleted;
--accelerator-- was inserted after "hardware" [line 3];
"," [lines 3 and 5] was changed to --:--;
"a" [line 7] was changed to --said--;
--said-- was inserted after "to" [line 14]; and
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# CLAIM 9

- "," [line 2] was deleted;
- "," [line 5] was changed to --:-; and

--a-- was inserted after "of" [line 15].

--said-- was inserted after "within" [line 12].

# Allowable Subject Matter

Claims 1-9 are allowed.

The following is an examiner's statement of reasons for allowance: although the prior art of record depicts computer systems for accelerating verification to comprise a simulator and a hardware accelerator, the prior art of record does not disclose or

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suggest a system comprising the particular subroutines recited in each of the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cadambi et al. [U.S. Patent Application Publication #2003/0105617 A1] disclose a hardware acceleration system employing FPGAs. Lin et al. [U.S. Patent #6,389,379 B1] disclose coverification that eliminates race conditions. Burgun et al. [U.S. Patent #6,301,553 B1] disclose removing timing hazards. Selvidge et al. [U.S. Patent #6,009,531] disclose transformation for converting a circuit design into a single clock synchronous circuit. Tseng et al. [U.S. Patent #6,009,256] disclose a simulation/emulation system comprising a hardware accelerator. Wang et al. [U.S. Patent #5,579,510] disclose synchronous primitive elements. Chen et al. [U.S. Patent #5,475,830] disclose reconfigurable emulation that prevents hold time violations.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leigh Marie Garbowski whose telephone number is 571-272-1893 and e-mail is Leigh.Garbowski@uspto.gov.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LEIGHM GARBOWSKI PRIMARY EXAMINER